

MATERIAL CONDITION TABLE

CODE	CONDITION	HARDNESS (HRC)	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	H1150	28 TO 47	105	135
H900	H900	40 TO 47	170	190
H925	H925	38 TO 45	155	170
H1025	H1025	34 TO 42	145	155
H1075	H1075	31 TO 38	125	145
H1100	H1100	30 TO 37	115	140
H1150	H1150	28 TO 37	105	135
CONDA	CONDITION A (SOLUTION TREATED)	38 MAX	-	-

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS

MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE

CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

D FOR DWGS THAT CALL FOR "UTS = 135 KSI, MIN YTS = 105 KSI" (IE. CODE " OMITTED " IN TABLE), HEAT TREAT TO H1150 CONDITION. H900 TO H1100 CONDITION MATERIAL MAY BE SUBSTITUTED.

GAUGE THICKNESS TABLE

GAUGE	NOMINAL THICKNESS	THICKNESS RANGE	GAUGE	NOMINAL THICKNESS	THICKNESS RANGE
38	0.0062	0.0052-0.0072	18	0.0500	0.0470-0.0530
37	0.0066	0.0056-0.0076	17	0.0562	0.0532-0.0592
36	0.0070	0.0060-0.0080	16	0.0625	0.0595-0.0655
35	0.0078	0.0068-0.0088	15	0.0703	0.0663-0.0743
34	0.0086	0.0076-0.0096	14	0.0781	0.0741-0.0821
33	0.0094	0.0084-0.0104	13	0.0937	0.0897-0.0977
32	0.0102	0.0092-0.0112	12	0.1094	0.1044-0.1144
31	0.0109	0.0099-0.0119	11	0.1250	0.1200-0.1300
30	0.0125	0.0110-0.0140	10	0.1406	0.1356-0.1456
29	0.0141	0.0126-0.0156	9	0.1562	0.1512-0.1612
28	0.0156	0.0141-0.0171	8	0.1719	0.1659-0.1779
27	0.0172	0.0157-0.0187	7	0.1875	0.1815-0.1935
26	0.0187	0.0172-0.0202	6	0.2031	0.1961-0.2101
25	0.0219	0.0199-0.0239	5	0.2188	0.2118-0.2258
24	0.0250	0.0230-0.0270	4	0.2344	0.2274-0.2414
23	0.0281	0.0261-0.0301	3	0.2500	0.2430-0.2570
22	0.0312	0.0292-0.0332	2	0.2656	0.2586-0.2726
21	0.0344	0.0324-0.0364	1	0.2813	0.2743-0.2883
20	0.0375	0.0345-0.0405	0	0.3125	0.3055-0.3195
19	0.0437	0.0407-0.0467			

**SPECIFICATION CONTROL DRAWING**

D PURCHASE MATERIAL: 17-4 PH / TYPE 630 / S17400 STAINLESS STEEL SHEET

SPECIFICATION: AMS 5604 OR ASTM A693

D HEAT TREATMENT: CONDITION A: AS SUPPLIED / NO HEAT TREATMENT
CONDITIONS H900 TO H1150 PER AMS 2759/3 OR ASTM A693

PART NUMBER: M17-4-[HHHHH]-S[TT]GA

WHERE "HHHHH" = MATERIAL CONDITION PER MATERIAL CONDITION TABLE
WHERE "TT" = GAUGE THICKNESS IN INCHES PER GAUGE THICKNESS TABLE

EG.: 16 GAUGE STAINLESS STEEL SHEET MIN UTS = 135 KSI, MIN YTS = 105 KSI = M17-4-S16GA

EG.: 14 GAUGE STAINLESS STEEL SHEET H900 CONDITION = M17-4-H900-S14GA

EG.: 12 GAUGE STAINLESS STEEL SHEET 1025 CONDITION = M17-4-H1025-S12GA

EG.: 22 GAUGE STAINLESS STEEL SHEET A CONDITION = M17-4-CONDA-S22GA



D	ADD HEAT TREAT SPECS, ADD HARDNESS, ADD CONDITIONS FOR " OMITTED " P/N SUFFIX (ECR 352)	CP	21.12.03
C	ADDED GAUGE NUMBERS 27 TO 38, REVISED GAUGE THICKNESS RANGE PER ASTM A480	KPT	21.09.01
B	ADD MATERIAL CONDITION AND GAUGE TABLE AND REFORMAT DRAWING (CIR17-107)	NO	17.09.14
A	NEW ISSUE	CB	06.08.17
REV.	DESCRIPTION	BY	DATE
DESIGN	NO	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	CP		
CHECKED	SAD	DRAWING NO.	REV. D
MFG. APPR.	SH	M17-4-S	SHEET 1 OF 1
APPROVED	CP	TITLE	SCALE
DE APPR.	CP	17-4 SS SHEET	NTS
DATE	21.12.03	COPYRIGHT © 2006 BY DART AEROSPACE LTD	
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RELEASED

2021 DEC 10
HB ECR 353

APPROVED